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**A Supplement to the
"DESCRIPTIONS OF AMERICAN LEPIDOPTERA."**

BY AUG. R. GROTE AND COLEMAN T. ROBINSON.

[Under the above title five papers have been printed in these Transactions. The untimely death of Mr. C. T. Robinson has prevented the completion of a series, which was intended to include one hundred figures of American Moths. Eighty-six figures had been published at the time of Mr. Robinson's decease, illustrating five descriptonal papers dating as follows :

No. 1. Vol. i., pp. 1—29 with 2 plates and 25 figures, and dated June, 1867.

No. 2. Vol. i., pp. 171—192 with 1 plate, figs. 26 to 35, and dated August, 1867.

No. 3. Vol. i., pp. 323—360 with 2 plates, figs. 36 to 59, and dated January, 1868.

No. 4. Vol. ii., pp. 179—206 with 2 plates, figs. 60 to 76, and dated September, 1868.

No. 5. Vol. iii., pp. 176—182 with 1 plate, figs. 77 to 86, and dated October, 1870.

During the time in which these papers were being written we visited the British Museum together and examined many of Mr. Francis Walker's types of the new species of Moths described in the British Museum Lists. A paper devoted to the changes in nomenclature proposed in consequence, has already appeared in these Transactions, Vol. ii., pp. 67—88.

The descriptonal part of a sixth paper of our series, the one intended to bring the number of figures to one hundred, was partly finished at Mr. Robinson's death, but many considerations will prevent its being printed. This sixth paper, however, embodied a revision of the species previously described which is given here.

A. R. G.]

The species we have hitherto mentioned and illustrated in this series of papers are here briefly enumerated in a systematic order and, where it is found necessary, changes are made in the names originally proposed.

Family PAPILIONIDAE.

Sub-family LYCAENINAE.

Tribe *Theclini*.

1. ***Thecla inorata***, [G. & R. No. 3, p. 323; No. 4, p. 179. *Thecla falacer* † Bdv. and Lec. (not Godt.) plate. *Thecla falacer* † Scudd., Harris], and ***Thecla calanus***, Westw. [No. 3, p. 324; Nw. 4, p. 179. *Rusticus arm. calanus*, Hübner. *Thecla falacer*, Godt. *Thecla falacer*, Bdv. and Lec. text in part. *Thecla Edwardsii*, Saunders MSS. teste G. & R. No. 2, p. 172. *Thecla falacer*, Scudd., Harris.] are separated.

2. ***Thecla lorata***, G. & R. No. 2, p. 171.

This species differs from its allies by the common extra basal line of powdery dark blue scales on the under surface of the wings. Virginia.

3. ***Thecla henrici***, G. & R. No. 2, p. 174.

Eastern and Middle States.

Family HESPERIIDAE.

4. ***Hesperia accius***.

Papilio accius, Ab. and Smith.

Hesperia punctella, G. & R. No. 1, p. 1.

Our material came from Georgia, and there is no doubt that it belongs to the species represented by Ab. and Sm. Southern States.

5. ***Hesperia fusca***, G. & R. No. 1, p. 2.

Georgia, Florida.

6. ***Hesperia alternata***, G. & R. No. 1, p. 3.

Georgia. Mr. Townsend Glover has figured our type specimen on his unpublished plates of Lepidoptera.

Family SPHINGIDAE.

Tribe *Macrogossini*.

7. ***Sesia thetis***, G. & R. No. 3, p. 325, fig. 36.

Macroglossa thetis, Boisd.

California.

8. ***Sesia axillaris***, G. & R. No. 4, p. 180.

Texas.

9. ***Euproserpinus phaeton***, G. & R. No. 4, p. 181.

Macroglossa erato, Boisd. (1868—1869.)

Eupros. phaeton, G. & R. Cat. Sphing. (1865.)

Macroglossum phaeton, G. & R. Trans. Ent. Soc. p. 174 (1870).

California.

Family AGERIIDAE.

10. *Aegeria pictipes*, G. & R. No. 4, p. 182, fig. 94.
Pennsylvania.

11. *Zenodoxus maculipes*, G. & R. No. 4, p. 184.
Texas.

Family ZYGAENIDAE.

Sub-family CASTNIINAE.

Tribe Castniini.

12. *Alypia 8-maculata*, Hübner, G. & R. No. 3, p. 326.
Eastern, Middle and Western States.

13. *Alypia langtonii*, Couper, G. & R. No. 3, p. 326.
Al. octomaculata † Walk.
Canada.

14. *Alypia dipsaci*, G. & R. No. 3, p. 326, fig. 37.
California.

The species of *Alypia* from the Western District, as elsewhere remarked by us, have the spots on the secondaries of the same color with those on the fore wings; whereas *A. 8-maculata* from the Atlantic District has the markings of the hind wings white.

15. *Alypia sacramento*, G. & R. No. 3, p. 327; fig. 38.
California.

16. *Alypia lorquinii*, G. & R. No. 3, p. 328, fig. 39.
California. This species is allied to *A. Maccullochi*, Kirby, and *A. Ridingsii*, Grote.

17. *Alypia mariposa*, G. & R. No. 3, p. 329, fig. 40.
California.

Tribe Eudriini.

18. *Euscirrhopterus gloveri*, G. & R. No. 4, p. 185.
Texas.

Sub-family ZYAENINAE.

Tribe Ctenuchini.

19. *Ctenucha ochroscapus*, G. & R. No. 3, p. 330.
Cten. corvina, Boisd., p. 71.
California.

20. *Ctenucha multifaria*, Walk.
Glaucopis rubroscapus, Mén.
Ctenucha rubrosc. G. & R. No. 3, p. 331.
California.

Tribe *Pericopiini*.

21. **Gnophaela aequinoctialis**, *Walk. G. & R. No. 3, p. 331.*
Venezuela.

22. **Gnophaela vermiculata**, *G. & R. No. 3, p. 332.*
Callalucia vermiculata, Grote.
Colorado Territory.

23. **Gnophaela hopfferi**.
Gnophaela hopfferi, *G. & R. No. 3, p. 332.*
California.

Tribe *Cydosiini*.

24. **Cydosia aurivitta**, *G. & R. No. 4, p. 186, fig. 68.*

Family BOMBYCIDAE.

Sub-family LITHOSIINAE.

Tribe *Lithosiini*.

25. **Cisthene unifascia**, *G. & R. No. 4, p. 187, fig. 63.*
Southern States. In the text the figure is erroneously cited. This is perhaps a form of *C. subjecta*. The more obscurely colored species from the Western District, erroneously described under *Lithosia* by Boisduval, seem to vary in an analogous manner.

26. **Lithosia cephalica**, *G. & R. No. 5, p. 176.*
Texas.

Sub-family ARCTIINAE.

27. **Epicallia virginalis**, *Boisd. sp., G. & R. No. 3, p. 333, fig. 42.*
Var. *Agarista guttata*, Boisd.
California.
28. **Nemeophila caespitis**, *G. & R. No. 3, p. 337, fig. 43.*
California.
29. **Nemeophila eichorii**, *G. & R. No. 3, p. 338, fig. 44.*
California.
30. **Arctia achaia**, *G. & R. No. 3, p. 334, figs. 45, 46.*
California. The artist has erroneously figured the antennae of the ♀, fig. 46, so as to make them as pectinate as in the ♂, fig. 45.
31. **Arctia daturica**, *Boisd. sp., G. & R. No. 3, p. 336, fig. 41.*
California.
32. **Vanessodes clarus**, *G. & R. No. 5, p. 176.*
Texas.

Sub-family COCHLIDIINAE.

Tribe *Adonetini*.

33. **Monoleuca semifascia**, *Walk. sp., G. & R. No. 4, p. 188, fig. 62.*

Texas to Virginia. In the text the fig. is erroneously cited.

34. **Adoneta pygmaea**, *G. & R.* No. 4, p. 189.

Tribe *Cochliidiini*.

35. **Heuretes plecticornis**, *G. & R.* No. 4, p. 190.

St. Thomas, West Indies.

36. **Limacodes rectilinea**, *G. & R.* No. 4, p. 188, fig. 61.

South Carolina. In the text the figure is incorrectly cited.

Sub-family PSYCHIINAE.

Tribe *Psychiini*.

37. **Psyche confederata**, *G. & R.* No. 4, p. 191, figs. 66, 67.

Texas. The observation in the text, referring Professor Glover's Florida species here, is inaccurate. The Florida insect is *Platoeceticus Gloverii*, *Pack*.

Sub-family PTILODONTINAE.

Tribe *Pygaerini*.

38. **Ichthyura ornata**, *G. & R.* No. 4, p. 191.

California.

Tribe *Heterocampini*.

39. **Dasylophia interna**, *Pack. G. & R.* No. 2, p. 176, fig. 31.

Virginia to New Hampshire.

40. **Coelodasys leptinoides**, *G. & R.* No. 2, p. 177, fig. 33.

Pennsylvania to Rhode Island.

41. **Heterocampa obliqua**, *Pack. G. & R.* No. 2, p. 178, figs. 26, 27.

Middle States. Is this the same as *H. astarte*?

42. **Heterocampa brunnea**, *G. & R.* No. 2, p. 180, fig. 28.

Georgia to Pennsylvania. The ♀ is represented on an unpublished plate of Abbot's; ♂ unknown. Is this a distinct species?

43. **Heterocampa pulverea**, *G. & R.* No. 2, p. 185, fig. 32.

Middle States.

44. **Heterocampa marthesia**, *G. & R.* fig. 29.

Phalaena marthesia, Cramer, 264 B.

Lochmaeus tessella, Pack.

Het. tessella, *G. & R.* No. 2, p. 182.

Cerura turbida, Walk.

Eastern and Middle States.

45. **Heterocampa elongata**, *G. & R.* No. 2, p. 184, fig. 30.

Middle States.

Sub-family CERATOCAMPINAE.

Tribe *Hemileucini*.

46. **Hemileuca grotei**, *Hopffer*, G. & R. No. 4, p. 192, fig. 60.
Texas.

47. **Hyperchiria zelleri**, G. & R. No. 4, p. 193, fig. 65,
Texas.

Tribe *Dryocampini*.

48. **Syssisphinx simulatilis**, G. & R. No. 1, figs. 1 ♂ and 7 ♀.

♂ *Psephopaectes simul.*, G. & R. No. 1, p. 5.

♀ *Adeloccephala grandis*, G. & R. No. 1, p. 8.

Mexico. After having examined specimens of both sexes of the Brazilian *S. molina* in Paris, we make the above correction.

49. **Adeloccephala 4-lineata**, G. & R. No. 1, p. 11, fig. 2.

Mexico. Here also reference is made to the U. S. *Sphingicampa bicolor*, and the Mexican *A. albolineata*, G. & R. For remarks respecting the two Mexican species of *Adeloccephala* above mentioned, see Trans. Am. Ent. Soc., Vol. 2, p. 77.

Family NOCTUIDAE.

50. **Microcoelia diphteroides**, *Guenée*, G. & R. No. 4, p. 195, figs. 69, 70.

Eastern and Middle States.

51. **Acronycta dissecta**, G. & R. No. 5, p. 178, fig. 81.

Eastern States.

52. **Acronycta verrillii**, G. & R. No. 5, p. 178, fig. 82.

Eastern States.

53. **Acronycta luteicoma**, G. & R. No. 5, p. 179, fig. 83.

Middle States. Allusion is here made to *A. funeralis* and *A. afficta*.

54. **Acronycta morula**, G. & R. No. 4, p. 196, fig. 75.

Canada, Eastern and Middle States.

55. **Leucania rubripennis**, G. & R. No. 5, p. 179, fig. 77.

Texas.

56. **Arzama obliquata**, G. & R. No. 3, p. 339, fig. 47.

Middle States.

57. **Gortyna purpurifascia**, G. & R. No. 3, p. 341, fig. 51.

Eastern States.

58. **Gortyna speciosissima**, G. & R. No. 3, p. 342, fig. 52.

Eastern States.

59. **Gortyna inquaesita**, *G. & R.* No. 3, p. 344.
Eastern and Middle States.
60. **Hydroecia sera**, *G. & R.* No. 3, p. 345, fig. 55.
Canada, Eastern and Middle States.
61. **Xanthia ralla**, *G. & R.* No. 3, p. 346, fig. 49.
Middle States.
62. **Xanthia euroa**, *G. & R.* No. 3, fig. 50.
Xanthia puta, || p. 347, l. c.
Eastern and Middle States. The name we originally proposed is preoccupied.
63. **Choephora fungorum**, *G. & R.* No. 4, p. 200, fig. 74.
Southern and Middle States.
64. **Agrotis collaris**, *G. & R.* No. 3, p. 348, fig. 53.
New York.
65. **Agrotis geniculata**, *G. & R.* No. 3, p. 349, fig. 54.
Pennsylvania.
66. **Agrotis muraenula**, *G. & R.* No. 3, p. 352, fig. 48.
Eastern and Middle States. *A. scandens*, *Riley*, contrary to supposition, we regard as different, not synonymous.
67. **Agrotis repentis**, *G. & R.* No. 3, p. 350, fig. 58.
New York.
68. **Agrotis violaris**, *G. & R.* No. 3, p. 353, fig. 59.
Pennsylvania.
69. **Hadena distincta**, *Guenée, G. & R.* No. 4, p. 197, fig. 72.
Middle States.
70. **Hadena subjuneta**, *G. & R.* No. 4, p. 198, fig. 71.
Western and Middle States.
71. **Xylina bethunei**, *G. & R.* No. 3, p. 354, fig. 56.
Canada to New York.
72. **Xylina capax**, *G. & R.* No. 3, p. 355, fig. 57.
Pennsylvania.
73. **Cucullia convexipennis**, *G. & R.* No. 4, p. 201, fig. 76.
Eastern and Middle States.
74. **Plusia mappa**, *G. & R.* No. 4, p. 204.
Canada.

75. **Litoprosopus futilis**, Grote, No. 4, fig. 73.*Dyops futilis*, G. & R. p. 202, l. c.*Litop. futilis*, Grote, Trans. Am. Ent. Soc. Vol. ii., p. 309.

Florida.

76. **Lygranthoecia marginata**, G. & R.*Pyralis marginatus*, Haworth.*Anthoecia rivulosa*, Guenée.

Alabama to Canada. This new generic name is proposed for this and the following species which differ structurally from either *Anthoecia*, *Boisd.*, or any of the divisions of *Heliothis*, *Led.*

77. **Lygranthoecia thoreani**, G. & R. No. 5, fig. 80.*Anthoecia thoreani*, G. & R. p. 181, l. c.

Alabama to New York.

78. **Heliothis villosus**, G. & R.*Melicteptria villosa*, Grote.*Anthoecia vill.*, G. & R. No. 5, p. 181.

Colorado Territory.

79. **Heliothis hirtellus**, G. & R.*Anthoecia hirtella*, G. & R. Proc. E. S. Phil. Vol. vi., pl. 3, fig. 3.

Eastern States. Guenée's figure of *H. spinosae* totally differs from our species; his description corresponds sufficiently as to lead us to suspect our species intended.

80. **Heliothis citrinellus**, G. & R. No. 5, p. 180, fig. 79.

Texas.

81. **Heliothis phlogophagus**, G. & R. No. 5, p. 180.

California, Western States and Territories. Is this distinct from the European *H. dipsacea*?

82. **Heliothis umbrosus**, Grote.

Throughout the Atlantic District. Common and destructive to many fruits. Is this distinct from the European *H. armigera*, which, conversely, seems to occur rarely in its habitat?

83. **Heliocheilus paradoxus**, Grote.

Colorado Territory. Specimens from Texas and Alabama are smaller and paler, but do not seem to be distinct. The genus has since been discovered in the East Indies, we were told in Vienna.

84. **Chariclea exprimeus**, G. & R.*Heliothis exprimens*, Walker.

Middle and Eastern States. Is this distinct from the European *Char. umbra* (*Hel. marginata*, Auct.)?

85. **Tarache cretata**, *G. & R.* No. 5, p. 181, fig. 78.
Texas.
86. **Erastria synochitis**, *G. & R.* No. 3, p. 357.
Eastern and Middle States.
87. **Erastria musta**, *G. & R.* No. 3, p. 358.
Middle States.
88. **Drasteria agricola**, *G. & R.* No. 2, p. 189, fig. 34.
Pennsylvania to Massachusetts.
89. **Drasteria mundula**, *G. & R.* No. 2, p. 191, fig. 35.
Pennsylvania. Both of these are probably varietal forms of *D. erichtea*.

Family ARCHIEARIDAE.

90. **Archicaris infans**, *G. & R.* No. 2, p. 189.
Brephos infans, Moeschler.
Eastern States northward to Labrador.
91. **Archicaris brephoides**, *G. & R.* No. 2, p. 188.
Anarta brephoides, Walker.
Arch. resoluta, Zeller.
Hudson's Bay Territory.

Family GEOMETRIDAE.

92. **Selenia kentaria**, *G. & R.* No. 3, p. 359, figs. 5, 6.
Pericallia kent., No. 1, p. 12.
New York. Represents the European *S. illunaria* in our fauna, but is to be readily distinguished from it.
93. **Fidonia fimetaria**, *G. & R.* No. 5, p. 182, figs. 84 to 86.
Texas. Appears to represent the European *F. fasciolaria* in our fauna, but is readily distinguished.

Family PYRALIDAE.

PYRALIDIDAE (*Lederer*).

94. **Fabatana oviplagalis**, *Walker*, *G. & R.* No. 1, fig. 9.
Asopia anthoecioides, *G. & R.* p. 15, l. c.
New York to Pennsylvania.
95. **Asopia unimacula**, *G. & R.* No. 1, p. 14, fig. 8.
Pennsylvania.
96. **Botys laticlavata**, *G. & R.* No. 1, p. 17, fig. 12.
Alabama to New York. Apparently this species is determined as the Cuban *Rhodaria tyralis*, *Guenée*, in the B. M. Coll. *Guenée's* species cannot be the same.

97. **Botys cinerosa**, *G. & R.* No. 1, p. 18, fig. 13.

Pennsylvania.

98. **Botys difflusa**, *G. & R.* No. 1, p. 19, fig. 16.

Cuba to Louisiana. This comes near to *Hemimatia phoenicalis*, *Hüb.*, but differs from the illustration, and more sensibly from the description given by *Guenée*, p. 173. Perhaps it is *Guenée's* *R. tyralis*.

99. **Botys sumptuosalis**, *G. & R.* No. 1, fig. 14.

Pyrausta sumptuosalis, Walker, p. 1281, pt. 34.

Botys haruspica, *G. & R.* p. 19, l. c.

Pennsylvania to Massachusetts.

100. **Botys vinulenta**, *G. & R.* No. 1, fig. 11.

Massachusetts to Pennsylvania, and westward to the Territories. This is *Rhodaria signatalis*, Walker, and *Botys signatalis*, *G. & R.*, but the specific name is preoccupied.

101. **Botys generosa**, *G. & R.* No. 1, p. 20, fig. 10.

Pennsylvania.

102. **Botys plectilis**, *G. & R.* No. 1, p. 27, fig. 17.

Pennsylvania to New York.

103. **Botys adipaloides**, *G. & R.* No. 1, p. 26, fig. 19.

Texas to Massachusetts. Allied to *B. ecclesiastis*, and seems to be the species described as *Samea elialis* by Walker.

104. **Botys citrina**, *G. & R.* No. 1, fig. 20.

Spilodes helvialis, Walker, (!). (in part)

Botys citrina, *G. & R.* p. 23, l. c.

Botys thyresalis, Walker, (!).

Botys apertalis, Walker, (!).

Massachusetts to Pennsylvania. None of Mr. Walker's names for this species can be used, for the reason that the specimens under these names in B. M. do not correspond with the descriptions, or belong to more than one species.

105. **Botys marculeuta**, *G. & R.* No. 1, p. 23, fig. 21.

New York to Pennsylvania.

106. **Botys coloradensis**, *G. & R.* No. p. 25, fig. 18.

Colorado Territory.

107. **Botys argyralis**, *Hübner*, sp., G. & R. No. 1, fig. 23.

Botys ventralis, G. & R. p. 21, l. c.

Alabama to New York. Varies in color and obsolescence of the white spots on primaries; recognizable from the darker colored ventral shade.

108. **Botys posticata**, G. & R. No. 1, p. 22, fig. 25.

Pennsylvania.

109. **Botys insularis**, G. & R. No. 1, p. 24, fig. 24.

Cuba.

110. **Blepharomastix ranalis**, *Led.*, G. & R. No. 1, fig. 15.

Botys gracilis, G. & R. p. 25, l. c.

Middle and Eastern States.

111. **Lipocosma albolineata**, G. & R. No. 1, p. 28, fig. 23.

Middle States.

The only other species belonging to this family described by us is *Pantographa limata*, Ann. N. Y. Lyc. vol. viii, April, 1867, plate 16, fig. 16 ♂, 17 ♀. This seems to represent the Brazilian *P. scripturalis*, *Led.*, in our fauna and is not uncommon from Virginia to Massachusetts.

ERRATA.

Page 71, line 8, before "D'une" insert "Essai."

Page 174, line 19, before "large" insert "stigma."

Pages 294 and 295 for "coccinifascia" read "coccineifascia."